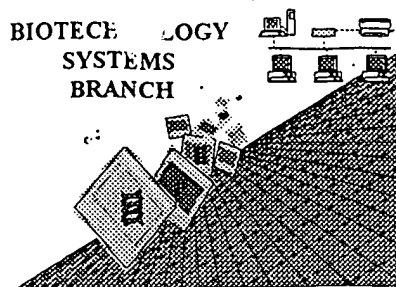


## RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



1631

#6  
Blanket  
4/4/01

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/198,779A

Source: 1600

Date Processed by STIC: 3/27/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

### Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

1600

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/198,779A

DATE: 03/27/2001

TIME: 10:41:48

Input Set : D:\metseq\list02.usol.rpt

Output Set: N:\CRF3\03272001\I198779A.raw

Does Not Comply  
Corrected Diskette Needed

2 <110> APPLICANT: Bledig, Stefan A.  
 3 Byrum, Joseph R.  
 4 Liu, Jingdong  
 7 <120> TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With The  
 8 Methionine Synthesis And Degradation Pathways  
 10 <130> FILE REFERENCE: 04983.0002.US01/38-21(15077)B  
 12 <140> CURRENT APPLICATION NUMBER: 09/198,779A  
 C--> 13 <141> CURRENT FILING DATE: 1998-11-24  
 15 <160> NUMBER OF SEQ ID NOS: 3204

## ERRORED SEQUENCES

63273 <210> SEQ ID NO: 3204  
 63274 <211> LENGTH: 434  
 63275 <212> TYPE: DNA  
 63276 <213> ORGANISM: Glycine max  
 63278 <223> OTHER INFORMATION: unsure at all n locations  
 W--> 63279 <400> SEQUENCE: 3204  
 W--> 63281 ccacgcgtcc gccacgcgt ccggtccgcc atctccgccg tctnctcca gctctgcagc 60  
 W--> 63283 cacngcgaac anggtggctg nctccagaac tctntacngt gggacccacn cgctcctctc 120  
 W--> 63285 acactttctc ccgcgcacgt gcggaatc cactagcttc gtggaggtga cngatcttga 180  
 W--> 63287 catgnttat gctgccataa tagaaaggaa aacaaaagtg cttacttnt aatctggttc 240  
 W--> 63289 caacccacc cttacngttg cgaacatacc tgaactgtgc cacatggcac accggaagg 300  
 W--> 63291 agtgactgtg gtggtggaca acacgttcgt gcccatgggtg ctttcgccag cgcgtnttg 360  
 W--> 63293 gtgcttatgt ttgtnttca cagtatctcc aagttcatna atnggtgggg ccgatatta 420  
 W--> 63295 ttgcangagc ggng 434  
 E--> 63298 13  
 E--> 63301 2

delete at end of file

see next page

<220> ← insert this mandatory  
 numeric identifier  
 whenever <221>  
 <222>, OR <223>  
 is shown  
 (global error)

(see 1.823 of  
 new Sequence  
 Rules)

## VERIFICATION SUMMARY

DATE: 03/27/2001

PATENT APPLICATION: US/09/198,779A

TIME: 10:41:58

Input Set : D:\metseqlist02.usol.rpt

Output Set: N:\CRF3\03272001\I198779A.raw

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:23 M:283 W: Missing Blank Line separator, <400> field identifier  
L:29 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1  
L:29 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1  
L:29 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1  
L:29 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1  
L:40 M:283 W: Missing Blank Line separator, <400> field identifier  
L:42 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2  
L:42 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2  
L:42 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2  
L:42 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:2  
L:44 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2  
L:44 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2  
L:44 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2  
M:340 Repeated in SeqNo=2  
L:46 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2  
L:46 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2  
L:46 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2  
L:48 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2  
L:48 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2  
L:48 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2  
L:50 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2  
L:50 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2  
L:50 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2  
L:52 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2  
L:52 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2  
L:52 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2  
L:61 M:283 W: Missing Blank Line separator, <400> field identifier  
L:63 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3  
L:63 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3  
L:63 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3  
L:63 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3  
L:65 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3  
L:65 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3  
L:65 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3  
M:340 Repeated in SeqNo=3  
L:74 M:283 W: Missing Blank Line separator, <400> field identifier  
L:76 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4  
L:76 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:4  
L:76 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4  
L:76 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:4  
L:78 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4  
L:78 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:4  
L:78 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4  
M:340 Repeated in SeqNo=4  
L:84 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4  
L:84 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:4  
L:84 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4

## VERIFICATION SUMMARY

DATE: 03/27/2001

PATENT APPLICATION: US/09/198,779A

TIME: 10:41:58

Input Set : D:\metseqlist02.usol.rpt

Output Set: N:\CRF3\03272001\I198779A.raw

L:93 M:283 W: Missing Blank Line separator, <400> field identifier  
L:95 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:5  
L:95 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5  
L:95 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5  
L:95 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:5  
L:97 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:5  
L:97 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5  
L:97 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5  
M:340 Repeated in SeqNo=5  
L:99 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:5  
L:99 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5  
L:99 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5  
L:101 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:5  
L:101 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5  
L:101 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5  
L:128 M:283 W: Missing Blank Line separator, <400> field identifier  
L:130 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:7  
L:130 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:7  
L:130 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:7  
M:340 Repeated in SeqNo=7  
L:143 M:283 W: Missing Blank Line separator, <400> field identifier  
L:145 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:8  
M:340 Repeated in SeqNo=8  
L:172 M:283 W: Missing Blank Line separator, <400> field identifier  
L:174 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:9  
M:340 Repeated in SeqNo=9  
L:197 M:283 W: Missing Blank Line separator, <400> field identifier  
L:199 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:10  
M:340 Repeated in SeqNo=10  
L:222 M:283 W: Missing Blank Line separator, <400> field identifier  
L:224 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:11  
M:340 Repeated in SeqNo=11  
L:235 M:283 W: Missing Blank Line separator, <400> field identifier  
L:237 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:12  
M:340 Repeated in SeqNo=12  
L:260 M:283 W: Missing Blank Line separator, <400> field identifier  
L:262 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:13  
M:340 Repeated in SeqNo=13  
L:287 M:283 W: Missing Blank Line separator, <400> field identifier  
L:289 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:14  
M:340 Repeated in SeqNo=14  
L:314 M:283 W: Missing Blank Line separator, <400> field identifier  
L:316 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:15  
L:341 M:283 W: Missing Blank Line separator, <400> field identifier  
L:343 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:16  
M:340 Repeated in SeqNo=16  
L:368 M:283 W: Missing Blank Line separator, <400> field identifier  
L:370 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:17  
M:340 Repeated in SeqNo=17

## VERIFICATION SUMMARY

DATE: 03/27/2001

PATENT APPLICATION: US/09/198,779A

TIME: 10:41:58

Input Set : D:\metseq\list02.usol.rpt

Output Set: N:\CRF3\03272001\I198779A.raw

L:393 M:283 W: Missing Blank Line separator, <400> field identifier  
L:397 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:18  
M:340 Repeated in SeqNo=18  
L:418 M:283 W: Missing Blank Line separator, <400> field identifier  
L:428 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:19  
M:340 Repeated in SeqNo=19  
L:443 M:283 W: Missing Blank Line separator, <400> field identifier  
L:457 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:20  
L:468 M:283 W: Missing Blank Line separator, <400> field identifier  
L:470 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:21  
M:340 Repeated in SeqNo=21  
L:495 M:283 W: Missing Blank Line separator, <400> field identifier  
L:497 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:22  
M:340 Repeated in SeqNo=22  
L:522 M:283 W: Missing Blank Line separator, <400> field identifier  
L:524 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:23  
M:340 Repeated in SeqNo=23  
L:547 M:283 W: Missing Blank Line separator, <400> field identifier  
L:549 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:24  
M:340 Repeated in SeqNo=24  
L:574 M:283 W: Missing Blank Line separator, <400> field identifier  
L:576 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:25  
L:621 M:283 W: Missing Blank Line separator, <400> field identifier  
L:623 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:27  
M:340 Repeated in SeqNo=27  
L:646 M:283 W: Missing Blank Line separator, <400> field identifier  
L:658 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:28  
M:340 Repeated in SeqNo=28  
L:671 M:283 W: Missing Blank Line separator, <400> field identifier  
L:673 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:29  
M:340 Repeated in SeqNo=29  
L:698 M:283 W: Missing Blank Line separator, <400> field identifier  
L:721 M:283 W: Missing Blank Line separator, <400> field identifier  
L:748 M:283 W: Missing Blank Line separator, <400> field identifier  
L:773 M:283 W: Missing Blank Line separator, <400> field identifier  
L:800 M:283 W: Missing Blank Line separator, <400> field identifier  
L:825 M:283 W: Missing Blank Line separator, <400> field identifier  
L:850 M:283 W: Missing Blank Line separator, <400> field identifier  
L:877 M:283 W: Missing Blank Line separator, <400> field identifier  
L:902 M:283 W: Missing Blank Line separator, <400> field identifier  
L:925 M:283 W: Missing Blank Line separator, <400> field identifier  
L:952 M:283 W: Missing Blank Line separator, <400> field identifier  
L:979 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1006 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1047 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1092 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1117 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1140 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1159 M:283 W: Missing Blank Line separator, <400> field identifier

## VERIFICATION SUMMARY

DATE: 03/27/2001

PATENT APPLICATION: US/09/198,779A

TIME: 10:41:58

Input Set : D:\metseq\list02.usol.rpt

Output Set: N:\CRF3\03272001\I198779A.raw

L:1184 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1205 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1264 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1289 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1316 M:283 W: Missing Blank Line separator, <400> field identifier  
L:63298 M:254 E: No. of Bases conflict, LENGTH:Input:13 Counted:434 SEQ:3204  
M:254 Repeated in SeqNo=3204